

Skills Worksheet

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Directed Reading

Section: The Cell Cycle

Complete each statement by writing the correct term or phrase in the space provided.

1 The cell cycle is a repeating sequence of growth and _____ during the life of a cell.

2 The first three phases of the cell cycle are collectively called _____.

In the space provided, write the letter of the description that best matches the term or phrase.

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|--|--|
| _____ 3. first growth (G ₁) phase | a. nucleus divides into two nuclei |
| _____ 4. synthesis (S) phase | b. cytoplasm divides |
| _____ 5. second growth (G ₂) phase | c. preparations are made for the nucleus to divide |
| _____ 6. mitosis | d. DNA is copied |
| | e. cell carries out its routine functions |
| _____ 7. cytokinesis | |

Complete each statement by writing the correct term or phrase in the space provided.

8. Many _____ control the cell cycle.
9. The checkpoint that makes the key decision of whether the cell will divide is the _____ checkpoint.
10. The information necessary to make the proteins that regulate cell growth and division is contained in _____.

Read the question, and write your answer in the space provided.

11. Describe the role of checkpoints in the onset of cancer.